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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/010,601 Filing Date December 06, 2001 First Named Inventor Lakkis, Ismail **Group Art Unit**

(use as many sheets as necessary) of

Examiner Name To Be Assigned

Attorney Docket Number 45389.00004.UTL

			U.S. PATENT DOCU	MENTS	
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		Number Kind Co	Appliance of Charl Decument		
MN	AA	5,563,909	Nakazawa	10-08-1996	
1	AB	5,675,572	Hidejima et al.	10-07-1997	
	AC	5,949,813	Hunsinger et al. 09	10 -07-1999	
	AD	6,049,707	Buer et al.	04-11-2000	
سلح	AE	6,192,068 B1	Fattouche, et al.	02-20-2001	
W	AF	6,320,897 B1	Fattouche	11-20-2001	
TN.	AG	RE37,802 E	Fattouche	07-23-2002	

			FOREIGN PAT	TENT DOCUMENT	S		
Examiner Initials	Cite No.'	Foreign P	nton Document Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7
							٦

		NON PATENT LITERATURE DOCUMENTS	-
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HN	AH	BINGHAM, JOHN A.C. "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come" IEEE Communications Magazine, May 1990, Pages 5-14.	
HN	AI _.	BLUM, RICK S. et al. "Improved Space – Time Coding for MIMO-OFDM Wireless Communications" IEEE Transactions on Communications, Vol. 49, No. 11, November 2001, pp. 1873-1878.	
ずべ	LA	CHAUNG, JUSTIN et al. "Beyond 3G: Wideband Wireless Data Access Based on OFDM and Dynamic Packet Assignment" IEEE Communications Magazine, July 2000, pages 78-87.	
H	AK	EDFORDS, OVE et al. "An introduction to orthogonal frequency-division multiplexing" September 1996, pp. 1-50	

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